5

10

ABSTRACT

[00110] A radio-frequency (RF) repeater, including a first repeating section which is adapted to receive and amplify forward-signals from a first transceiver so as to generate amplified-forward-signals and to radiate the amplified-forward-signals to a second transceiver. The first section also receives and amplifies reverse-main-signals from the second transceiver so as to generate amplified-reverse-main-signals and transmits the amplified-reverse-main-signals to the first transceiver. The repeater includes a second repeating section which is adapted to receive and amplify reverse-diversity-signals from the second transceiver so as to generate amplified-reverse-diversity-signals and transmits the amplified-reverse-diversity-signals to the first transceiver.